

# Special Issue

## Fractals: Geometry, Analysis and Mathematical Physics

### Message from the Guest Editor

The goal of this Special Issue is to publish a collection of interesting and novel mathematics or mathematical physics original research papers or research expository articles, on a broad variety of topics related to fractals, viewed either as geometric or analytic objects, and their applications. Possible topics include, but are not limited to:

- Analysis and partial differential equations on or off fractals.
- Wave propagation in fractal media.
- Vibrations of fractal drums.
- Geometry (and/or geometric measure theory) of fractals.
- Self-similar sets and their various extensions.
- Dimension theory of fractals (including complex dimensions and fractal zeta functions).
- Fractals and number theory.
- Fractals and probability theory (e.g., random fractals, diffusions and other stochastic processes on fractals).
- Fractals and dynamical systems.
- Fractals and mathematical physics.
- Fractals and computer graphics or scientific computation, experimental mathematics.
- Nonsmooth analysis (e.g., metric measure spaces and doubling spaces).

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### Guest Editor

Prof. Dr. Michel L. Lapidus

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### Deadline for manuscript submissions

closed (30 November 2020)



## Mathematics

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## About the Journal

### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

Prof. Dr. Francisco Chiclana  
School of Computer Science and Informatics, De Montfort University,  
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#### Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.3 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2024).